

MODULE III – STORAGE IN CONTAINERS

III.A. APPLICABILITY

- III.A.1. The requirements of this permit Module pertain to the operation of hazardous waste container storage areas at the facility. The Permittee shall comply with R315-8-9 and all conditions of this Module.
- III.A.2. The designated hazardous waste storage areas are the bays of Buildings M-705S, E-501, M-47, M-603, M-186, the burn trays at M-136 and Burn Station 14 at M-136. Drawings of these storage areas are presented in Attachment 6.

III.B. WASTE IDENTIFICATION

- III.B.1. The Permittee shall, subject to the terms of this Permit, store only the following hazardous wastes, as listed by EPA hazardous waste code, in containers at storage areas M-186, M-705S and E-501:
- D001, D002, D003, D004, D005, D006, D007, D008, D009, D010 D011, D016, D018, D019, D021, D022, D023, D024, D026, D027,D028, D029, D035, D036, D038, D039, D040, D042, D043, F001, F002, F003, F004, F005, F006, F007, F008, F009, K044, P003, P012, P022, P028, P029, P030, P047, P048, P064, P067, P077, P087, P092, P093, P095, P098, P105, P106, P112, P116, P119, U001, U002, U004,U006, U008, U009, U019, U025, U028, U029, U031, U037, U041, U044, U048, U053, U056, U057, U069, U070, U072, U077, U079, U080, U085, U088, U092, U093, U095, U098, U101, U102, U103,U105, U108, U112, U113, U117, U118, U120, U121, U122, U123, U131, U133, U134, U140, U147, U148, U149, U151, U154, U156, U159, U160, U161, U162, U165, U168, U169, U170, U171, U185, U186, U188, U190, U196, U201, U209, U210, U211, U218, U219, U220, U221, U223, U224, U225, U226, U228, U238, U239, U240, U243, U244, U246, U253, U328, U353, U359, U404.
- III.B.2. The Permittee may store waste solid rocket motors and waste solid propellant, EPA hazardous waste code D003, in storage Building M-47 subject to the terms of this Permit.
- III.B.3. The Permittee may store and treat solid propellant/rocket motors, EPA hazardous waste code D003, in Building M-603 in accordance with Module IV of this Permit.
- III.B.4. The Permittee may treat hydrazine, EPA hazardous waste code U133, by dilution, at Building T-29B, for the sole purpose of safely shipping the resultant waste to an off-site disposal or treatment facility in accordance with Attachment 10.
- III.B.5. The Permittee may store solid reactive waste, EPA hazardous waste code D003, received from off-site in burn trays at M-136 for up to 14 days prior to thermal treatment. Waste stored in burn trays shall be containerized only in covered drums, boxes, plastic bags, woven bags or other US Department of Transportation (DOT) or United Nations (UN) approved shipping containers. Containers shall be labeled and managed as specified in Attachment 9.

- III.B.6. The Permittee may store waste rocket motors, EPA hazardous waste code D003, received from off-site that contain solid propellant, one at a time on the ground at M-136, Burn Station 14 for up to 14 days prior to thermal treatment. The waste rocket motors shall be labeled and managed as specified in Attachment 9.
- III.B.7. The Permittee is prohibited from storing hazardous waste that is not identified in Section III.B. of this Module. Any addition of hazardous waste codes to Condition III.B.1. requires modification of the permit in accordance with Condition I.D.3.

III.C. CONDITION OF CONTAINERS

- III.C.1. If a container holding hazardous waste is not in good condition (e.g., severe rusting, bulging, apparent structural defects) or it has begun to leak, the Permittee shall transfer the hazardous waste, or the container itself, to a UN approved container in accordance with Section 10 of Attachment 8. The transfer shall be completed as soon as possible but not later than 24 hours from the time the problem was first discovered.

III.D. COMPATIBILITY OF WASTE WITH CONTAINERS

- III.D.1. The Permittee shall assure that the waste is compatible with the containers as required by R315-8-9.3. The Permittee shall follow the compatibility plan as indicated in Section 9.21 and Table 9-2 of Attachment 9.

III.E. MANAGEMENT OF CONTAINERS

- III.E.1. The Permittee shall manage containers in accordance with this module of the Permit, UAC R315-8-9.4 and the procedures identified in Attachment 9. A container holding hazardous waste shall always be closed during storage except when the Permittee is adding or removing waste from the container. The Permittee shall not open, handle, or store containers in a manner which may cause the containers to leak.
- III.E.2. The Permittee shall store liquid hazardous wastes in containers only at storage areas M-186, E-501 and M-705S. Drawings of the container storage areas are shown in Attachment 6. At capacity, the Permittee may store the following volumes of wastes:
- III.E.2.a. E-501 - 8,800 gallons, which is 160 55-gallon containers or the equivalent;
- III.E.2.b. M-186 - 22,000 gallons, which is 400 55-gallon containers or the equivalent; and
- III.E.2.c. M-705S - 1,760 gallons, which is 32 55-gallon containers or the equivalent.
- III.E.3. The Permittee shall store waste solid propellant in containers at storage areas M-47, M-603 and M-136. Drawings of the storage areas are shown in Attachment 6. At capacity, the Permittee may store the following amounts of wastes:
- III.E.3.a. M-47 - 840,000 lbs 1.3 or 21,000 lbs 1.1 solid propellant;
- III.E.3.b. M-603 - 120,000 lbs 1.3 on rail and 120,000 lbs 1.3 in the casting pit, not to exceed 240,000 lbs total 1.3 solid propellant or 8,000 lbs 1.1 on rail and 65,000 lbs 1.1 in the casting pit not to exceed 65,000 lbs total 1.1 solid propellant; and

- III.E.3.c. M-136 – 106,000 lbs of 1.3 solid propellant or 20,000 lbs of 1.1 solid propellant in burn trays or in a rocket case placed on the ground.
- III.E.4. The Permittee shall maintain an aisle space of 30 inches minimum between containers or pallets of containers at storage areas M-186 and E-501.
- III.E.5. The Permittee shall store hazardous waste in containers at M-705S, M-47, M-603 and M-136 so that they may be readily inspected and hazardous waste labels are visible.
- III.E.6. The Permittee may stack 55-gallon drums at a maximum of two high at storage areas M-186 and E-501.
- III.E.7. Hazardous waste containers shall not be stacked at storage areas M-705S, M-47, M-603 and M-136.
- III.E.8. The Permittee shall unload any transport vehicle hauling containers of hazardous waste for storage within 10 days following arrival at the site. Arrival for purposes of this permit shall be the day the vehicle arrives at the facility.
- III.E.9. The Permittee shall provide storage for and maintain on-site, 85 gallon overpack drums at areas where liquid hazardous waste is stored.

III.F. CONTAINMENT SYSTEMS

- III.F.1. The Permittee shall maintain the containment systems in accordance with the attached plans and specifications contained in Attachment 9 and as specified in UAC R315-8-9.6.
- III.F.2. Container management areas shall be inspected for the presence of free liquids in accordance with Attachment 2. If free liquids are discovered in the sumps or other containment areas, the Permittee shall identify the location in the inspection log. Any liquids discovered shall be removed immediately, but in no case later than twenty-four hours after the liquid is discovered and managed according to the spill contingency plan specified in Section 9-4.3 of Attachment 9.
- III.F.3. For purposes of inspections, all containers stored in the liquid hazardous waste storage area shall be considered full to their respective capacities with liquid hazardous waste. Gondolas/roll-offs that are used only for the storage of solid hazardous waste need not be considered in the calculations for containment. The area for storing solid waste shall be identified.
- III.F.4. The burn trays at M-136 are only permitted for the storage of solid reactive wastes in containers for no more than 14 days. However since some of the containers contain small amounts of desensitizing fluid (e.g. diesel, shingle oil, etc.), the containment requirements, as specified in Attachment 9, apply to the storage of wastes in the burn trays. Inspection of the burn trays shall be conducted in accordance with Attachment 2.

III.G. SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTE

- III.G.1. The Permittee shall not locate containers holding ignitable or reactive waste within 15 meters (50 feet) of the facility boundary.
- III.G.2. The Permittee shall take precautions to prevent accidental ignition or reaction of ignitable or reactive waste and follow the procedures specified in Attachment 8, UAC R315-8-2.8 and UAC R315-8-9.7.

III.H. SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTE

- III.H.1. The Permittee shall not place incompatible wastes, or incompatible wastes and materials, in the same container, in accordance with UAC R315-8-2.8 and UAC R315-8-9.8(a).
- III.H.2. The Permittee shall not place hazardous waste or materials in an unwashed container that previously held an incompatible waste or material in accordance with UAC R315-8-2.8 and UAC R315-8-9.8(b).
- III.H.3. A storage container holding a hazardous waste that is incompatible with any waste or other materials stored nearby shall be separated from the other materials or protected from them by means of a dike, berm, wall, or other device.

III.I. INSPECTION SCHEDULES AND PROCEDURES

- III.I.1. The Permittee shall inspect the hazardous waste storage facilities identified in Condition III.A. of this Permit as specified in the Inspection Schedules contained in Attachment 2. The purpose of this inspection shall be to detect leaking containers, standing liquids, deterioration of containers, and to detect deterioration of, or liquids in, the secondary containment system caused by corrosion and other factors as specified in R315-8-9.5.
- III.I.2. If problems are observed during the inspections, the Permittee shall correct the problem in accordance with Module II, Section F.

III.J. CLOSURE/POST-CLOSURE

- III.J.1. The Permittee shall close the storage areas in accordance with UAC R315-8-7, UAC R315-8-9.9, Condition II.N. and Attachment 5 of this Permit.
- III.J.2. Closure plans for each individual hazardous waste management area shall be submitted to the Executive Secretary for approval no less than 180 days prior to the commencement of closure activities. No closure activities shall take place that have not received prior approval from the Executive Secretary.